

XOR Update

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A U.S. Department of Energy
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Operated by The University of Chicago



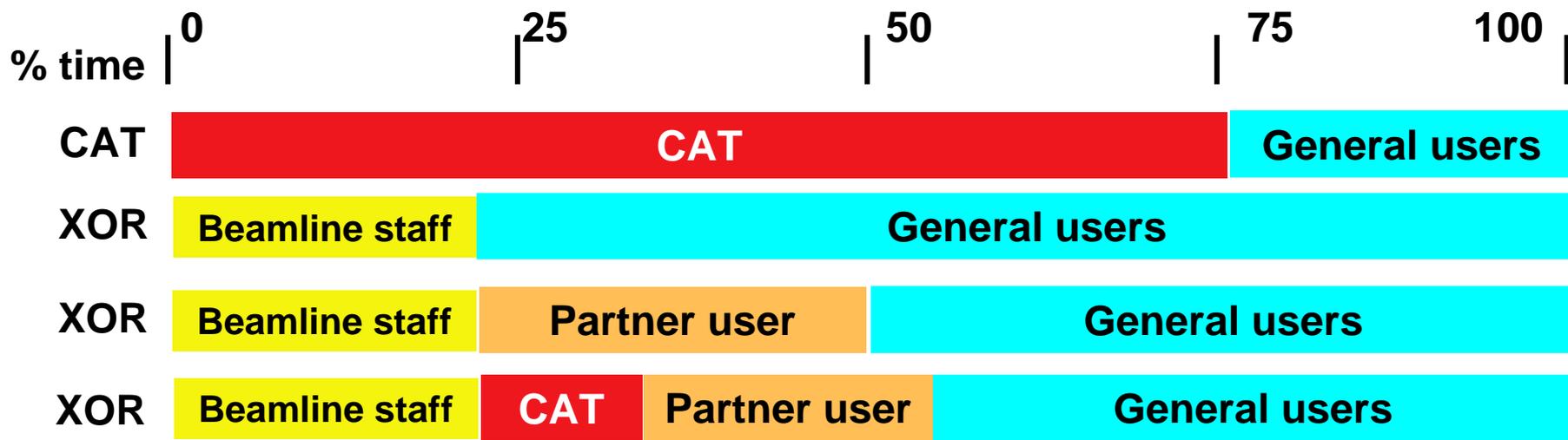
The evolution of BES sectors

- **Former SRI CAT (sectors 1-4) becomes X-Ray Operations and Research (XOR), offers 80% time for competition**
- **BES supported sectors expected to transition to facility operation, and become XOR sectors**
- **APS desire to retain strong partner users in steady state, where appropriate, through Partner User Proposals (PUP)**
- **APS aims to evolve a suite of well-supported, scientifically or technically focused beamlines**
- **Emerging opportunities in . . . workshops to develop strategies for remaining sectors**

Partner User Proposals

- **The scope covers all partnerships from CATs to individual instrument development proposals requesting 10% beamtime**
- **Must offer the hallmarks of scientific excellence and be shown to benefit the general user program**
- **Are reviewed by the Scientific Advisory Committee**
- **And examined by the appropriate sector Sector Review Panel**

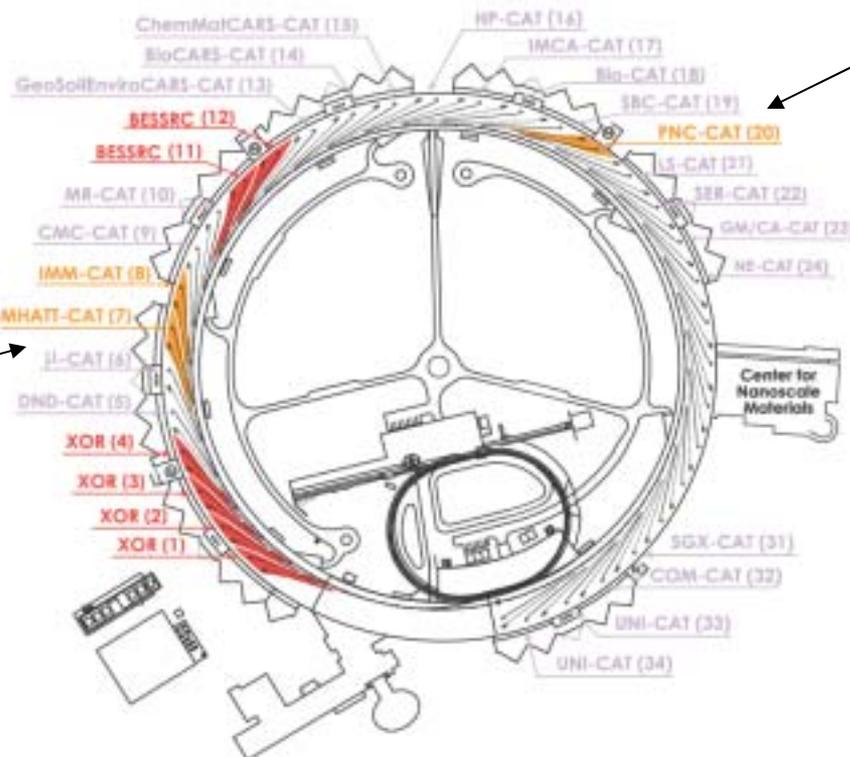
Models for Sector Access



XOR BES Sectors

Photon
Correlation
Spectroscopy

Time-Resolved
Science



XAFS

2003 APS Support

Sector	APS Staff
7	3
8	3
11	4.5
12	4.5
20	3
Total	18

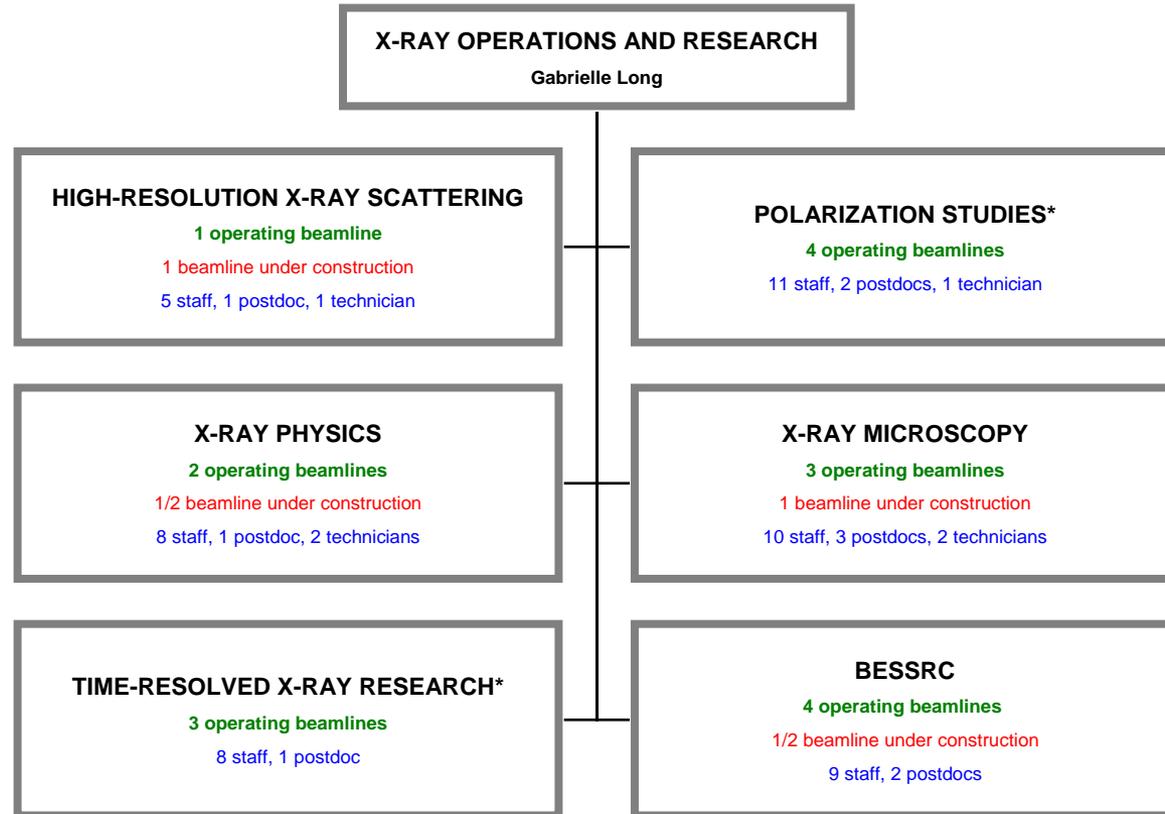
~\$3.2M in FY '03



New sectors: IXS(30), Nanoprobe(26) and Powder Diffraction(11-BM)



XOR beamlines and staffing



* Operation also is supported by CAT Staff



Current hiring activity in XOR

requisition #	Division	Date Posted	Job title
306858	XFD	3/26/2004	Asst Physicist
306860	XFD	3/26/2004	Physicist
306859	XFD	3/26/2004	Physicist
306815	XFD	3/26/2004	Physicist

We are seeking to fill 8 new positions this year.

There are over 40 candidates with experience in areas ranging from X-ray standing waves and XAFS, to X-ray scattering, crystallography, X-ray imaging, and X-ray correlation spectroscopy.



XOR Competition for beamline instrumentation

- **Instruments to increase scientific capabilities or improve user access**
- **Proposals may be associated with a partner user proposal**
- **Typical awards in the range \$60K to \$120K**
- **Proposal submission deadline is May 14**
- **Evaluation based on**
 - Scientific merit
 - Impact to the potential user community
 - Feasibility
 - Capability of the proposers

A call for larger scale instrumentation, such as rebuilding an end station or replacing an insertion device, is anticipated in June.

